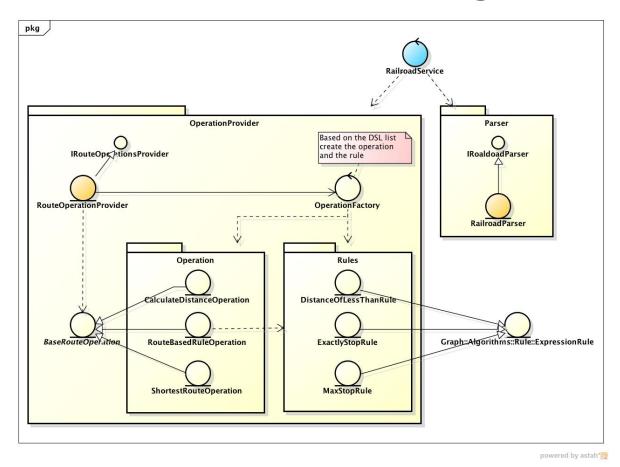
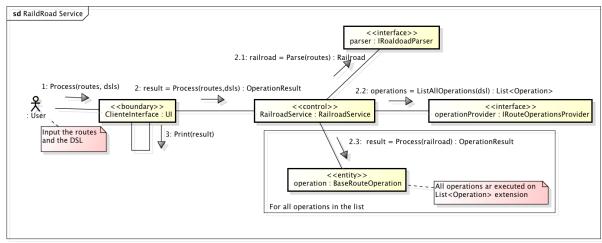
Railroad Solution Design



The main goals of this solution are:

- Create a design that separate all concerns in different components with clear responsibilities
- Keep the domain as separated as possible from the algorithms, calculation, etc...
- Provide extensibility in the context of new requirements/

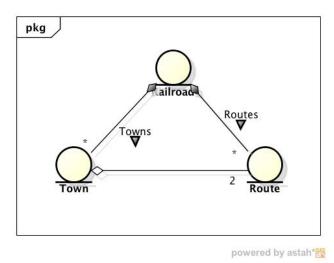
Here we can notice the interaction of more important component



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The service is the entry point for all runtime objects so it will ask the parser to translate the text related to the routes (ABD, ABC, ...) to a domain object RailRoad, the service than will evaluate the operations that should be perform by the dsl (ex: "calculate the distance, ...") and the operations will be executed. When a operation is executed it can build a graph object from the raildRoad and apply algorithms with specify rules to get the result.

The domain model is very simple and separated from everything else:



The Graph framework provides all the logic necessary to perform algorithms such as walk, etc...

